

IN THE CLAIMS:

1. (Currently Amended) A communication device comprising:

AN a single buffer having more than one portion configured ~~to store~~ for storing communication data comprising a plurality of speech samples having different numbers of data samples and more than one type of communications quality;

CM control circuitry coupled with the buffer and configured to generate a plurality of packets ~~including~~ having different amounts of communication data received from the buffer without introducing interruptions in the speech samples by switching among buffers; and

communication circuitry coupled with the control circuitry and configured to communicate the packets.

2. (Original) The device according to claim 1 wherein the control circuitry is configured generate a plurality of packet types, and further comprising control circuitry configured to extract communication data from only a portion of the buffer for one packet type and the entire buffer for another packet type.

3. (Currently Amended) The device according to claim 1 wherein the control circuitry is configured to ~~switch~~ select between a generation of a first packet type including a first amount of communication data and another packet type including a second amount of communication data.

4. (Currently Amended) The device according to claim 1 wherein the control circuitry is configured to ~~switch~~ select between a generation of different packet types including respective different amounts of communication data.

5. (Original) The device according to claim 1 further comprising control circuitry configured to extract communication data only from a first portion of the buffer for a given packet and only from a second portion of the buffer for another packet.

6. (Original) The device according to claim 1 further comprising control circuitry configured to selectively offset address the buffer to extract communication data from a portion of the buffer.

7. (Original) The device according to claim 1 wherein the control circuitry is configured to generate the packets including different amounts of communication data comprising different numbers of data samples.

8. (Original) The device according to claim 1 wherein the communication circuitry comprises wireless communication circuitry.

9. (Original) The device according to claim 1 wherein the communication circuitry comprises circuitry configured to communicate in accordance with the Bluetooth communications protocol.

10. (Original) The device according to claim 1 wherein the buffer is configured to store a maximum amount of communication data to be communicated in a single packet.

11. (Original) The device according to claim 1 wherein the buffer comprises a cyclical buffer.

12. (Currently Amended) A communication device comprising:

a buffer having more than one portion configured to store communication data comprising a plurality of speech samples having different numbers of data samples and more than one type of communications quality;

control circuitry coupled with the buffer and configured to generate a plurality of packets including communication data from the buffer, the control circuitry being configured to selectively address portions of the buffer using an offset address to extract the communication data for provision within at least some of the packets without introducing interruptions in the speech samples by switching among buffers; and

communication circuitry coupled with the control circuitry and configured to communicate the packets.

13. (Original) The device according to claim 12 wherein the control circuitry is configured to extract communication data only from a first portion of the buffer for a given packet and only from a second portion of the buffer for another packet, wherein the control circuitry utilizes the offset address to extract communication data from the second portion of the buffer.

14. (Original) The device according to claim 12 wherein the communication circuitry comprises wireless communication circuitry.

15. (Original) A communication device comprising: a buffer configured to store communication data; control circuitry coupled with the buffer and configured to selectively extract communication data from only a portion of the buffer and to generate a

packet including the communication data extracted from only the portion of the buffer;
and communication circuitry coupled with the control circuitry and configured to
communicate the packet.

16. (Original) The device according to claim 15 wherein the control circuitry is
configured to generate a plurality of packet types and to extract communication data from
only a portion of the buffer for one packet type and the entire buffer for another packet
type.

17. (Currently Amended) The device according to claim 15 wherein the control
circuitry is configured to ~~switch~~ select between generation of a first packet type
including a first amount of communication data and another packet type including a
second amount of communication data.

18. (Currently Amended) The device according to claim 15 wherein the control
circuitry is configured to ~~switch~~ select between generation of different packet types
including respective different amounts of communication data.

19. (Original) The device according to claim 15 wherein the control circuitry is
configured to extract communication data only from a first portion of the buffer for a
given packet and only from a second portion of the buffer for another packet.

20. (Original) The device according to claim 15 wherein the control circuitry is
configured to offset address the buffer to extract communication data from only the
portion of the buffer.

21. (Original) The device according to claim 15 wherein the communication circuitry comprises wireless communication circuitry.

22. (Currently Amended) A communication device comprising:

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a buffer configured to store a given amount of communication data comprising a plurality of speech samples having different numbers of data samples and more than one type of communications quality;

control circuitry coupled with the buffer and configured to selectively generate a packet including an amount of communication data different than the given amount of communication data without introducing interruptions in the speech samples by switching among buffers; and

communication circuitry coupled with the control circuitry and configured to communicate the packet

23. (Original) The device according to claim 22 wherein the control circuitry is configured to generate a plurality of packet types and to extract communication data from only a portion of the buffer for one packet type and the entire buffer for another packet type.

24. (Currently Amended) The device according to claim 22 wherein the control circuitry is configured to ~~switch~~ select between generation of a first packet type including a first amount of communication data and another packet type including a second amount of communication data.

25. (Currently Amended) The device according to claim 22 wherein the control circuitry is configured to ~~switch~~ select between generation of different packet types including respective different amounts of communication data.

26. (Original) The device according to claim 22 wherein the control circuitry is configured to extract communication data only from a first portion of the buffer for a given packet and only from a second portion of the buffer for another packet.

27. (Original) The device according to claim 22 wherein the control circuitry is configured to selectively offset address the buffer to extract communication data from only a portion of the buffer.

28. (Original) The device according to claim 22 wherein the communication circuitry comprises wireless communication circuitry.

29. (Currently Amended) A communication system comprising:
a plurality of communication devices configured to communicate with one another, wherein at least one of the communication devices comprises:

a buffer configured to store communication data comprising a plurality of speech samples having different numbers of data samples and more than one type of communications quality;

control circuitry coupled with the buffer and configured to generate a plurality of packets including different amounts of communication data from the buffer without introducing interruptions in the speech samples by switching among buffers; and

communication circuitry coupled with the control circuitry and configured to communicate the packets.

30. (Original) The system according to claim 29 wherein the control circuitry is configured generate a plurality of packet types and to extract communication data from only a portion of the buffer for one packet type and the entire buffer for another packet type.

31. (Currently Amended) The system according to claim 29 wherein the control circuitry is configured to ~~switch~~ select between generation of a first packet type including a first amount of communication data and another packet type including a second amount of communication data.

32. (Original) The device according to claim 29 wherein the control circuitry is configured to select between generation of different packet types including respective different amounts of communication data.

33. (Original) The system according to claim 29 wherein the control circuitry is configured to extract communication data only from a first portion of the buffer for a given packet and only from a second portion of the buffer for another packet.

34. (Original) The system according to claim 29 wherein the communication devices are configured to communicate using wireless communication signals.

35. (Currently Amended) A Bluetooth communications protocol communication device comprising:

a cyclical buffer configured to store a maximum amount of communication data to be communicated in a single packet, the communication data comprising a plurality of data samples;

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a packet composer coupled with the buffer and configured to ~~switch~~ select between generation of packets of a first packet type individually including a first amount of communication data from the buffer and of packets of a second packet type individually including a second amount of communication data from the buffer, the packet composer being further configured to extract communication data from only a portion of the buffer for packets of the first packet type selectively using an offset address and the entire buffer for packets of the second packet type, and wherein the packet composer is further configured to extract communication data only from a first portion of the buffer for a first packet of the first packet type and only from a second portion of the buffer for a second packet of the first packet type and only from a third portion of the buffer for a third packet of the first packet type; and wireless communication circuitry coupled with the packet composer and configured to communicate the packets of the first packet type and the second packet type in accordance with a Bluetooth communications protocol without introducing interruptions in the speech samples by switching among buffers.

36.(Currently Amended) A communication method comprising:

storing communication data comprising a plurality of speech samples having different numbers of data samples and more than one type of communications quality within a single buffer;

extracting different amounts of communication data from the buffer without
introducing interruptions in the speech samples by switching;

providing a plurality of packets including the different amounts of communication
data; and

communicating the packets after the providing.

37. (Original) The method according to claim 36 wherein the providing comprises
providing packets of different types, and the extracting comprises extracting
communication data from only a portion of the buffer for one packet type and the entire
buffer for another packet type.

38. (Original) The method according to claim 36 wherein the providing comprises
switching between a first packet type including a first amount of communication data and
a second packet type including a second amount of communication data.

39. (Currently Amended) The method according to claim 36 wherein the
providing comprises ~~switching~~ selecting between plural packet types including
respective different amounts of communication data.

40. (Original) The method according to claim 36 wherein the extracting comprises
extracting communication data only from a first portion of the buffer for a given packet
and only from a second portion of the buffer for another packet.

41. (Original) The method according to claim 36 wherein the extracting comprises
selectively offset addressing the buffer.

42. (Original) The method according to claim 36 wherein the communicating comprises communicating using wireless communication signals.

43. (Original) The method according to claim 36 wherein the communicating comprises communicating in accordance with a Bluetooth communications protocol.

44. (Currently Amended) A communication method comprising: storing communication data within a buffer; selectively addressing the buffer using a given address to extract communication data from at least a first portion of the buffer; selectively offset addressing the buffer using an offset address to extract communication data from a second portion of the buffer, wherein said extraction from a first buffer portion and a second buffer portion does not introduce interruptions in the communication data by switching among buffers;

providing a plurality of packets individually including one of the first portion of the communication data and the second portion of the communication data; and

communicating the packets after the providing.

45. (Original) The method according to claim 44 wherein the providing comprises providing a plurality of packets of a first packet type and providing a plurality of packets of a second packet type, and the addressing using the given address comprises addressing to extract communication data from only a first portion of the buffer for packets of the first packet type and the addressing using the offset address comprises addressing to extract communication data from only a second portion of the buffer for packets of the second packet type.

46. (Original) A communication method comprising:

storing communication data within a buffer;

extracting communication data from only a portion of the buffer;

providing a packet including communication data only extracted from the portion of the buffer ; and

communicating the packet after the providing.

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47. (Original) The method according to claim 46 further comprising:

extracting communication data from the entire buffer; and

providing a packet including communication data extracted from the entire buffer.

48. (Original) The method according to claim 46 wherein the extracting comprises selectively addressing the buffer using an offset address.

49. (Original) The method according to claim 46 wherein the extracting comprises extracting communication data from one of a first portion of the buffer and a second portion of the buffer, and the providing comprises providing the packet including communication data from the first portion of the buffer and providing another packet including communication data from the second portion of the buffer.

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